

EXPRESSION OF RECOMBINANT GLYCOPROTEINS WITH COMPLETE N-GLYCOSYLATION SITE OCCUPANCY FROM CHO CELLS

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ABSTRACT

Glycosylation of glycoproteins effect immunogenicity, solubility and stability of the protein. Recombinant glycoproteins from mammalian cell culture systems are expressed with heterogeneity in glycosylation. This review describes the methodology from obtaining recombinant glycoproteins without any glycosylation heterogeneity and with total N glycosylation sequon occupancy from CHO cells. The review describes the addition of a glycophosphatidylinositol anchor signal sequence C terminal of the recombinant glycoprotein results in complete N-glycosylation site occupancy from CHO mammalian expression system.

KEYWORDS: CHO Expression System, Glycoforms, Recombinant Erythropoietin, Thy-1